GALAXY CrossFire™ Series

Your satisfaction, Our priority.

GALAXY DXX

Power,Unleashed.

CROSS FIRE™ CERTIFIED

DXX ready PCI EXPRESS 6+2P(8P)

QUAD QUAD QUINTUPLE + 24

CPU CORE GRAPHICS DRIVES

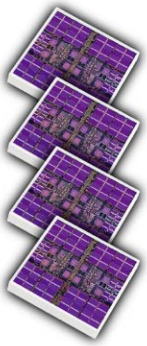
1000W/850W

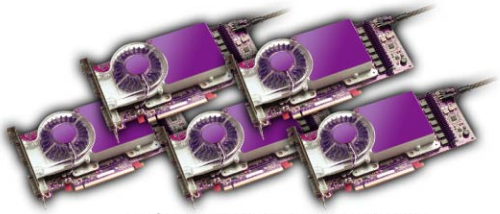
FEATURES

- **DXX ready:**
  For PCI Express 2.0 / DXX next generation graphic cards with 6+2P (8P) PCI Express connector.
- **CrossFire® SLI™ certified:**
  (ENERMAX GALAXY DXX 1000W/850W CrossFire™ EGX1000EWL-01 / EGX850EWL-01).
- **QUAD QUAD QUINTUPLE + 24:**
  QUAD CPU, QUAD CORE, QUINTUPLE GRAPHICS, 24 DRIVES.
- **Dual 6+2P PCI-E & Triple 6P PCI-E connectors:**
  Maximum extreme multiple GPU + physic accelerator graphics performance.
- **80-85% EFFICIENCY @ 20-100% load:**
  For the SMALLEST electricity BILLS.
- **24/7 @ 50 C:**
  NON-STOP FULL POWER by design and components.
- **EPS12V 2.92 (2007 EPS12V):**
  WORLD's FIRST PSU compliant with the newest EPS12V design guide revision.
- **WORLD's STRONGEST +5Vsb output of 6A:**
  EPS12V 2.92 (2007 EPS12V) specification for next-generation systems and multiple USB devices.
- **RAM POWER CABLE:**
  Dedicated RAM power cable to support next-generation 32-64GB RAM systems.
- **TRIPLE TRANSFORMER TECHNOLOGY:**
  The UTMOST in STABILITY & POWER.
- **Tight & Stable:**
  ESSENTIAL to high-end systems.
- **MODULAR:**
  MAXIMUM SATA or IDE/SCSI drives.
- **POWERGUARD:**
  4 ALERT MODES on PSU STATUS with RESET button.

QUAD QUAD QUINTUPLE + 24

CPU CORE GRAPHICS DRIVES

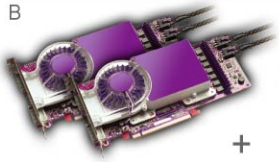




5 PCI Express 1.0 graphics (a 150W)

A

B



2 PCI Express 2.0
(a 300W)

+

1 PCI Express 1.0
(150W)

QUAD CPU

QUAD CORE

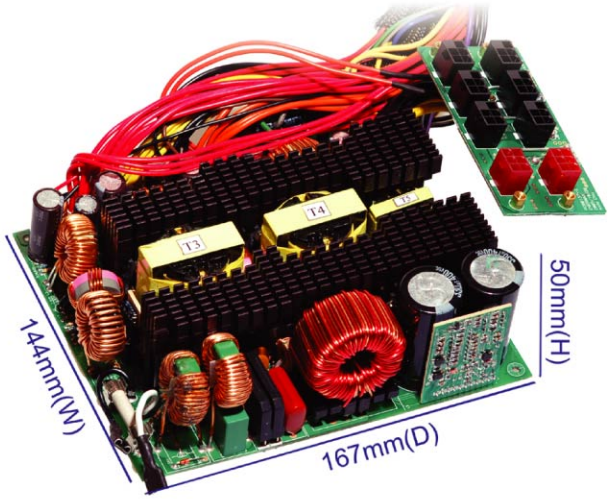
QUINTUPLE GRAPHICS

+ 24 DRIVES

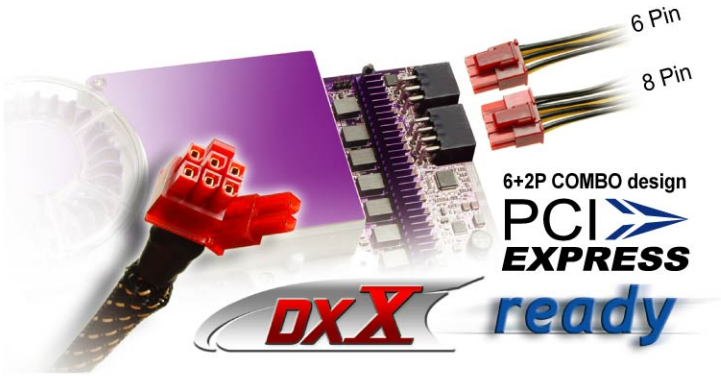
* Actual maximum support might vary by power consumption of connected components and is limited to DC output specifications

24/7 @ 50℃

INDUSTRIAL design



8P PCI Express 2.0



80-85% EFFICIENCY

SAVES YOUR MONEY

COMPARE!	SYSTEM 24/7 @ 500W load		kWh (kilowatts/hour) 1 kWh=0.1415$(California)		MONEY WASTED
PSU	Efficiency	AC In	per day	per year	per year
GALAXY	85%	588W	14.112	5150.88	0 US$
PSU A	80%	625W	15	5475	45.86 US$
PSU B	75%	667W	16.008	5842.92	97.92 US$

(Formula: (power out / efficiency) x 24 / 1000 = kWh/day x 365 = kWh/year)
(GALAXY: (500/0.85) x 24 / 1000 = 14.112 kWh/day x 365 = 5150.88 kWh/year)

PowerGuard

Total Surveillance

POWERGUARD INDICATION

LED	BUZZER	INFO
OFF	SILENT	NO AC INPUT
ORANGE	SILENT	STAND-BY MODE
GREEN	SILENT	PSU NORMAL
RED	TWO BEEPS INTERVAL	PSU PROTECTION ACTIVE
BLINKING RED	SHORT BEEPS	PSU FAN ABNORMAL

◎ Fan is measured once per second. If fan is abnormal for 10 seconds continuously, it will alarm you.

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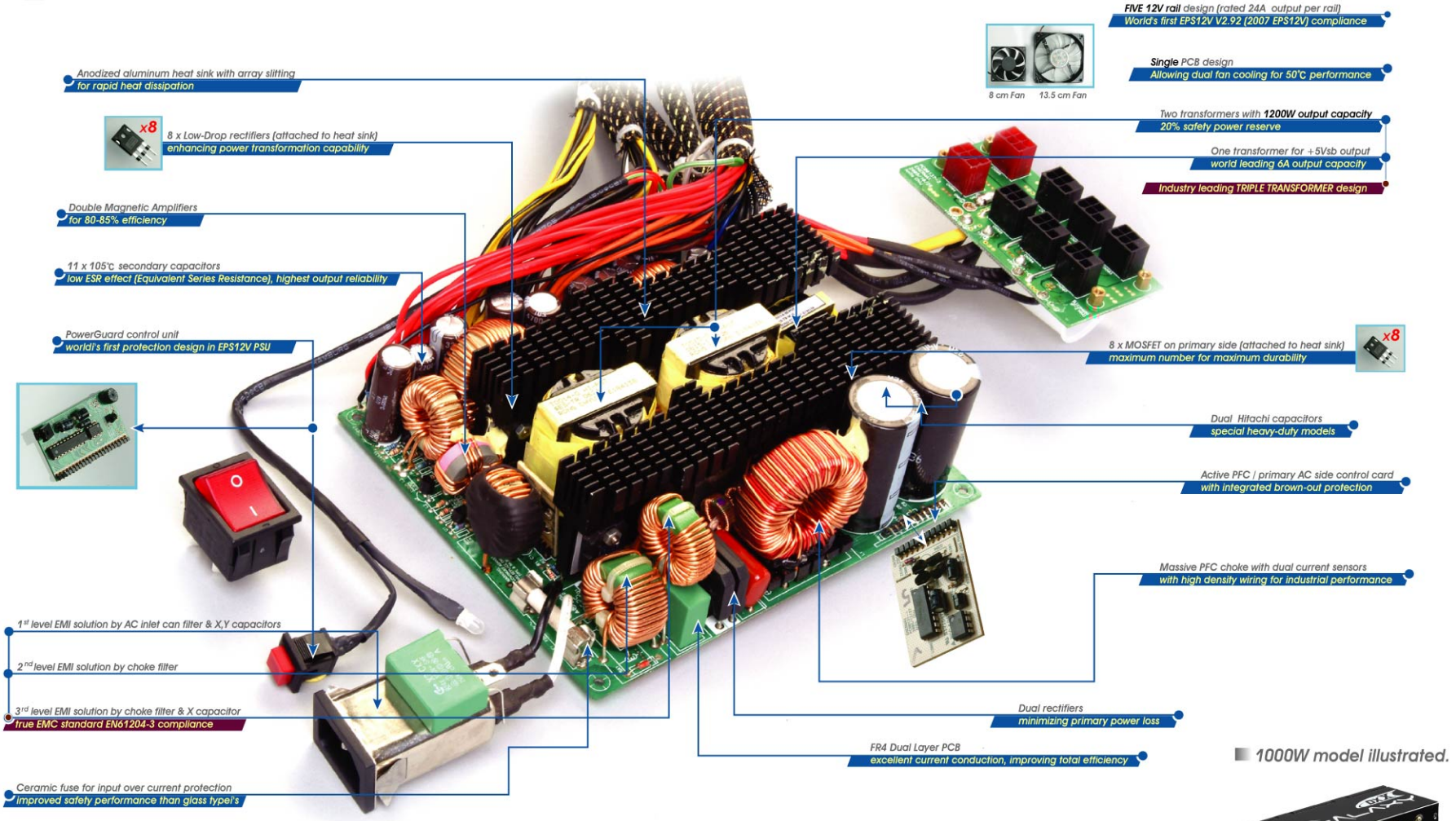
SGALAXY DXX — 24/7@50°C


FIVE 12V rail design (rated 24A output per rail)
World's first EPS12V V2.92 (2007 EPS12V) compliance
8 cm Fan
13.5 cm Fan
Single PCB design
Allowing dual fan cooling for 50°C performance
Anodized aluminum heat sink with array slitting
for rapid heat dissipation
x8
8 x Low-Drop rectifiers (attached to heat sink)
enhancing power transformation capability
Two transformers with 1200W output capacity
20% safety power reserve
One transformer for +5Vsb output
world leading 6A output capacity
Industry leading TRIPLE TRANSFORMER design
Double Magnetic Amplifiers
for 80-85% efficiency
11 x 105°c secondary capacitors
low ESR effect (Equivalent Series Resistance), highest output reliability
PowerGuard control unit
world's first protection design in EPS12V PSU
x8
8 x MOSFET on primary side (attached to heat sink)
maximum number for maximum durability
Dual Hitachi capacitors
special heavy-duty models
Active PFC / primary AC side control card
with integrated brown-out protection
Massive PFC choke with dual current sensors
with high density wiring for industrial performance
1st level EMI solution by AC inlet can filter & X,Y capacitors
2nd level EMI solution by choke filter
3rd level EMI solution by choke filter & X capacitor
true EMC standard EN61204-3 compliance
Dual rectifiers
minimizing primary power loss
FR4 Dual Layer PCB
excellent current conduction, improving total efficiency
Ceramic fuse for input over current protection
improved safety performance than glass type's

1000W model illustrated.

CROSS FIRE CERTIFIED

1000W/850W

EGX1000EWL-01 / EGX850EWL-01

ENERMAX

EPS12V V2.92 (2007 EPS12V)

GALAXY DXX, the successor of GALAXY, is designed in compliance with EPS12V V2.92 (2007 EPS12V) power supply design guide and DXX ready. Equipped with two of the latest 6+2P (8P) PCI Express 2.0 connectors, as well as three 6P PCI Express 1.0 connectors, an output increase to 24A per 12V rail and an optimized rail distribution, GALAXY DXX matches the needs of the most extreme gaming, server & workstation systems.

Why is GALAXY DXX ready for the future, while others are not?

EPS12V V2.92 specifies the requirements of power supplies of 950W or higher output:

1. Must have FIVE 12V rails to better distributing current.
2. Must have 6A +5Vsb output for next-gen workstation applications as well as multiple USB devices.
3. 24/7 full output at 0-45°C operating temperature. (GALAXY DXX is even 0-50°C)
4. Dedicated RAM Power connector required for 32-64GB RAM systems.

12V Rail Distribution

	+12V1	+12V2	+12V3	+12V4	+12V5
CPU(s) # 1 & 2 *	#1	#2			
CPU(s) # 3 & 4 *	#3	#4			
MB	yes				
GPU 6+2P (8P) PCI-E 2.0 # 1 & 2		#1		#2	
GPU 6P PCI-E 1.0 # 1, 2 & 3			#1	#2	#3
Drives (SATA/SCSI/IDE)			6 drives	9 drives	9 drives

※One of CPU power connectors can be converted into one additional 6+2P (8P) PCI-E connector via adaptor.

SAFETY & MULTIPLE PROTECTIONS

GALAXY DXX will turn off to protect itself and your system from damage.

	12V1	12V2	12V3	12V4	12V5	3.3V	5V	-12V	+5Vsb
OCP	yes	yes	yes	yes	yes	yes	yes	no	no
OLP	on 110 – 150% of maximum output								
SCP	yes	yes	yes	yes	yes	yes	yes	yes	yes
OVP	yes	yes	yes	yes	yes	yes	yes	yes	yes
UVP	activated, if AC In Voltage < 75VAC								
OTP	Activated if PSU heat sink temperature between 70-90°C								

(OCP = Over Current Protection, OLP = Over Load P., SCP = Short Circuit P., OVP = Over Voltage P., UVP= Under Voltage P., OTP = Over Temperature P.)

CERTIFICATES & STANDARDS

Safety	TÜV Rheinland Product Safety · BAUART GEPRÜFT TYPE APPROVED · c UL us E134014 · CB
EMC	CE · FC Tested To Comply With FCC Standards FOR HOME OR OFFICE USE · MIC

RoHS

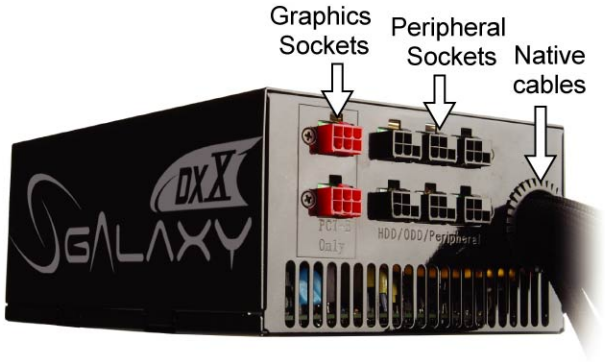
*Special UL Level 3 class available for OEM/ODM order.

SPECIFICATIONS

	MINIMUM	MAXIMUM 24/7 @ 0° - 50° C			PEAK > 12 sec		
12V1	2A	**24A**	**34A**	**68A** (EGX850)	26A	42A	75A (EGX850)
12V2		**24A**			26A		
12V3	1.9A	**24A**	**34A** (EGX850) **41A** (EGX1000)	**75A** (EGX1000)	26A	40A (EGX850) 45A (EGX1000)	85A (EGX1000)
12V4		**24A**			26A		
12V5		**24A**			26A		
3.3V	0.5A	**30A**	**200W**		45A	300W	
5V	0.5A	**30A**			40A		
-12V	0A	**0.6A**			0.6A		
+5Vsb	0.1A	**6A**			6A		
EGX850EWL-01	**Total power: 850 W** (950W PEAK)						
EGX1000EWL-01	**Total power: 1000 W** (1100W PEAK)						
100-240VAC, 50-60Hz, Active PFC, AC In max: 12A (EGX850) / 15A (EGX1000)							

* DIMENSIONS: W 150 x H 86 x D 220mm.

CABLES & CONNECTORS



Native Cables

1x	MB 24P	60cm
1x	8P CPU 12V	60cm
1x	4+4P CPU 12V	60cm
2x	8P PCI Express 2.0 (6+2P combo design)	55cm
1x	6P PCI Express	55cm
3x	SATA	45/60/75cm
3x	4P Molex	45/60/75cm
1x	Fan RPM	65cm
Including adaptors: for 3rd extreme graphic card		
1x	8P CPU to 6+2P PCI-E adaptor	10cm

Modular Cables

Modular Cables supplied / Model	1000W	850W
EMC001: 3 x SATA (SATA, SATA, SATA) 45/60/75cm	5	4
EMC002: 3 x 4P Molex (4P Molex, 4P Molex, 4P Molex) 45/60/75cm	3	2
EMC004: PCI-E 45cm	2	2
EMC006: 2 x 4P Molex + FDD (FDD, 4P Molex, 4P Molex) 45/60/75cm	2	2
EMC007: 2x2 +12V 45cm	1	1

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